



# STIC Search Report

## EIC 2800

STIC Database Tracking Number: 166994

**TO: Armando Rodriguez**  
**Location: JEF-5A24**  
**Art Unit : 2828**  
**Wednesday, June 22, 2005**

**Case Serial Number: 09/924957**

**From: Irina Speckhard**  
**Location: EIC 2800**  
**JEFF-4B59**  
**Phone: (571) 272-2554**

**irina.speckhard@uspto.gov**

### Search Notes

**Examiner Rodriguez,**

Please find attached prior-art search results from the patent and non-patent abstract and full-text databases. The results were based on claims and statements of technical problems and solutions. Tagged records might be worth your review as well as the rest of the references provided.

If you need further searching or have questions or comments, please let me know.

Thank you,

**Irina Speckhard**



**Query/Command : HIS**

File : PLUSPAT

**SS Results**

1	1	US2003123494/PN
2	3 (1)	..FAM US2003123494/PN
3	1	..CITB US2003123494/PN
4	1	..CITF US2003123494/PN

Search statement 5

## Query/Command : PRT MAX SET


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1 / 3 PLUSPAT - ©QUESTEL-ORBIT

**PN** - TW578349 B 20040301 [TW-578349]  
**TI** - (B) Single polarization fiber laser  
**PA** - (B) HRL LAB LLC (US); SABEUS PHOTONICS INC (US)  
**IN** - (B) STARODUBOV DMITRY (US); MINDEN MONICA (US)  
**AP** - TW91117802 20020807 [2002TW-0117802]  
**PR** - US92495701 20010807 [2001US-0924957]  
**IC** - (B) H01S-003/094  
**STG** - (B) Patent  
**AB** - A method and apparatus for generating single polarization fiber laser output are disclosed. A Bragg grating is non-destructively fabricated within the fiber to introduce differential loss between the two polarizations of the laser output. Curvature at the grating site into a tight loop further increases the differential loss between the available polarizations.w  
**UP** - 2004-35


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2 / 3 PLUSPAT - ©QUESTEL-ORBIT

**PN** -  US2003123494 A1 20030703 [US20030123494]  
**TI** - (A1) Single polarization fiber laser  
**IN** - (A1) STARODUBOV DMITRY (US); MINDEN MONICA (US)  
**AP** - US92495701 20010807 [2001US-0924957]  
**PR** - US92495701 20010807 [2001US-0924957]  
**IC** - (A1) H01S-003/08 H01S-003/10 H01S-003/30  
**EC** - H01S-003/067D  
**ICO** - T01S-003/067C2  
**PCL** - ORIGINAL (O) : 372006000; CROSS-REFERENCE (X) : 372027000  
372102000  
**DT** - Corresponding document  
**STG** - (A1) Utility Patent Application published on or after January 2, 2001  
**AB** - A method and apparatus for generating single polarization fiber laser output are disclosed. A Bragg grating is non-destructively fabricated within the fiber to introduce differential loss between the two polarizations of the laser output. Curvature at the grating site into a tight loop further increases the differential loss between the available polarizations.  
**UP** - 2003-29

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3 / 3 PLUSPAT - ©QUESTEL-ORBIT - image

**PN** -  WO03021730 A2 20030313 [WO200321730]  
**PN2** - WO03021730 A3 20040115 [WO200321730]  
**TI** - (A2) SINGLE POLARIZATION FIBER LASER

**OTI** - (A2) LASER A FIBRE A POLARISATION UNIQUE  
**LA** - ENGLISH (ENG)  
**PA** - (A2) STARODUBOV DMITRY (US); HRL LAB LLC (US); MINDEN MONICA (US)  
**PA0** - HRL LABORATORIES, LLC; 3011 Malibu Canyon Road, Malibu, CA 90265 (US) (except US)  
MINDEN, Monica; 847 Malibu Meadows Drive, Calabasas, CA 91302 (US) (only US)  
STARODUBOV, Dmitry; 427 Westminster Ave., Los Angeles, CA 90020 (US) (only US)  
**PA2** - (A3) STARODUBOV DMITRY (US); HRL LAB LLC (US); MINDEN MONICA (US)  
**IN** - (A2) STARODUBOV DMITRY (US); MINDEN MONICA (US)  
**AP** - WOUS0225240 20020807 [2002WO-US25240]  
**PR** - US92495701 20010807 [2001US-0924957]  
**IC** - (A2) H01S-003/067  
**EC** - H01S-003/067D  
**ICO** - T01S-003/067C2  
**DS** - AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW; European patent (AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; SK; TR); OAPI patent (BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG); ARIPO patent (GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW); Eurasian patent (AM; AZ; BY; KG; KZ; MD; RU; TJ; TM)  
**DT** - Basic  
**CT** - Cited in the search report  
US5511083(A)(Cat. A);US5881188(A)(Cat. A)  
**STG** - (A2) Publ. Of int. Appl. W/out int. Search rep  
**STG2** - (A3) Subsqu. Publ. Of int. Search report  
**AB** - A method and apparatus for generating single polarization fiber laser output are disclosed. A Bragg grating is non-destructively fabricated within the fiber to introduce differential loss between the two polarizations of the laser output. Curvature at the grating site into a tight loop further increases the differential loss between the available polarizations.e  
**UP** - 2003-12

Search statement 3

## SYSTEM:OS - DIALOG OneSearch

File 2:INSPEC 1969-2005/Jun W2  
(c) 2005 Institution of Electrical Engineers

File 6:NTIS 1964-2005/Jun W2  
(c) 2005 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1970-2005/Jun W2  
(c) 2005 Elsevier Eng. Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2005/Jun W3  
(c) 2005 Inst for Sci Info

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info

File 35:Dissertation Abs Online 1861-2005/May  
(c) 2005 ProQuest Info&Learning

File 65:Inside Conferences 1993-2005/Jun W3  
(c) 2005 BLDSC all rts. reserv.

File 94:JICST-EPlus 1985-2005/May W1  
(c) 2005 Japan Science and Tech Corp(JST)

File 99:Wilson Appl. Sci & Tech Abs 1983-2005/May  
(c) 2005 The HW Wilson Co.

File 144:Pascal 1973-2005/Jun W2  
(c) 2005 INIST/CNRS

File 305:Analytical Abstracts 1980-2005/Jun W2  
(c) 2005 Royal Soc Chemistry

\*File 305: Alert feature enhanced for multiple files, duplicate removal, customized scheduling. See HELP ALERT.

File 315:ChemEng & Biotec Abs 1970-2005/May  
(c) 2005 DECHEMA

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200538  
(c) 2005 Thomson Derwent

\*File 350: For more current information, include File 331 in your search. Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)  
(c) 2005 JPO & JAPIO

File 344:Chinese Patents Abs Aug 1985-2005/May  
(c) 2005 European Patent Office

File 371:French Patents 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv.

\*File 371: This file is not currently updating. The last update is 200209.

Set	Items	Description
S1	554	AU=(MINDEN, M? OR MINDEN M?)
S2	301	AU=(STARODUBOV, D? OR STARODUBOV D?)
S3	854	S1:S2
S4	68	S3 AND (FIBER? ? OR FIBRE? ?) (2N)LASER? ?
S5	1	S4 AND TIGHT??? (2N) (CURVE? ? OR LOOP?)
S6	67	S4 NOT S5
S7	26	S6 AND (GRATING(2N) (POSITION? OR FORMING OR BRAGG) OR GRAT- ING)
S8	0	S7 AND (SINGLE OR GENERAT? OR OBTAIN?) (2N) (POLARIZAT? OR P- OLARISAT?)
S9	0	S7 AND (POLARIZAT? OR POLARISAT?) (2N) (OUTPUT OR OUT() PUT)
S10	0	S7 AND (NON() DESTRUCT?) (2N) TECHNIQUE? ?
S11	4	S7 AND IC=(H01S-003/094 OR H01S-003/067D OR H01S-003/08 OR H01S-003/10 OR H01S-003/30)
S12	4	RD (unique items)
S13	22	S7 NOT S11
S14	17	RD (unique items)
S15	1	S14 AND (POLARIZAT? OR POLARISAT?)
S16	16	S14 NOT S15
S17	82836	(FIBER? ? OR FIBRE? ?) (2N)LASER? ?
S18	1416	TIGHT??? (2N) (CURVE? ? OR LOOP?)
S19	162385	GRATING(2N) (POSITION? OR FORMING OR BRAGG) OR GRATING
S20	17776	(SINGLE OR GENERAT? OR OBTAIN?) (2N) (POLARIZAT? OR POLARISA- T?)
S21	2080	(POLARIZAT? OR POLARISAT?) (2N) (OUTPUT OR OUT() PUT)
S22	19673	S20:S21
S23	6271	(NON() DESTRUCT?) (2N) TECHNIQUE? ?
S24	110585	IC=(H01S-003/094 OR H01S-003/067D OR H01S-003/08 OR H01S-0- 03/10 OR H01S-003/30)
S25	3	S17 AND S18
S26	3	RD (unique items)
S27	5444	S17 AND S19
S28	102	S27 AND S22
S29	1	S28 AND S23
S30	101	S28 NOT S29
S31	8	S30 AND S24
S32	8	RD (unique items)
S33	7202	S24 AND S17
S34	432	S33 AND S19
S35	9	S34 AND S22
S36	9	RD (unique items)
S37	0	S36 NOT S25, S29, S31
S38	423	S34 NOT S35
S39	495	S19 AND S22
S40	102	S39 AND S17
S41	183	S20 AND S21
S42	95	S41 AND LASER? ?
S43	8	S42 AND S24
S44	8	RD (unique items)
S45	7	S44 NOT S26, S29, S31, S35

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	"2001924957"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 14:32
L2	0	"200100924957"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 14:32
L3	0	"2001000924957"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:10
L4	1429	372/6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:16
L5	0	4 and single near3 polariation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:17
L6	130	4 and single near3 polarization	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:17
L7	20	4 and single near3 polarisation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:20
L8	13	4 and single near3 polarization with grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:11
L9	87	4 and single near3 polarization and grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:12
L10	320	372/27.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:19
L11	0	10 and single near3 polariation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:17
L12	47	10 and single near3 polarization	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:19

L13	134	372/29.01.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:20
L14	3	13 and single near3 polarization	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:21
L15	3	10 and single near3 polarisation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:20
L16	0	13 and single near3 polarisation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:24
L17	850	372/102.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:21
L18	43	17 and single near3 polarization	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:21
L19	3	17 and single near3 polarisation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/06/22 15:24
S1	84	curve near3 grating and fiber and bragg	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 11:09
S2	245	((curv\$3 or circular) near3 grating) and fiber and bragg	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/11 12:02
S3	244	((curve\$1 or circular) near3 grating) and fiber and bragg	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/11 12:02
S4	92	((curv\$3 or circular or arc\$3) near3 grating) and fiber near3 bragg near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/11 12:21
S5	2	tight near3 curve near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/11 12:21



S6	2	((("5283796") or ("3605039")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/11/12 11:09
S7	29	(single near3 polarization and fiber near3 laser and bragg near3 grating) and mask and (curv\$3 or loop\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 16:31
S8	12	fiber near3 laser and ((curv\$3 or loop\$3) near3 bragg near3 grating)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 16:36
S9	108	single near3 polarization and fiber near3 laser and bragg near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 16:56
S10	49	single near3 polarization near3 mode and fiber near3 laser and bragg near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:02
S11	22	single near3 polarization near3 output and fiber near3 laser and bragg near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:10
S12	92	fiber near3 laser and curv\$3 near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:11
S13	52	fiber near3 laser and curv\$3 near3 grating and polarization	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:22
S14	31	fiber near3 laser near3 ring and bragg near3 grating and polarization	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:25
S15	1090	fiber near3 laser and bragg near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:26
S16	143	( fiber near3 laser and bragg near3 grating ) and mask and radiation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:27
S17	78	(( fiber near3 laser and bragg near3 grating ) and mask and radiation) and polari\$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:32

S18	15	((circumferen\$8 or circular or loop\$3 or curv\$3) near3 mask) and fiber near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:39
S19	69	single near3 polarization and single near3 longitudinal near3 mode and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:40
S20	14	single near3 polarization near3 output and single near3 longitudinal near3 mode and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:46
S21	5	single near3 polarization near3 single near3 longitudinal near3 mode and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:56
S22	0	((single near3 polarization) same (single near3 longitudinal near3 mode)) and fiber near3 laser and differential near3 loss	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:57
S23	1	((single near3 polarization) and (single near3 longitudinal near3 mode)) and fiber near3 laser and differential near3 loss	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:58
S24	2	((single near3 polarization) and (single near3 longitudinal near3 mode)) and differential near3 loss	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:59
S25	5	((single near3 polarization) and (single near3 mode)) and differential near3 loss and bragg near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 17:59
S26	28	grating and differential near3 loss and polarization and mode	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 18:07
S27	14	grating and differential near3 loss and polarization and mode and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 18:10
S28	23	grating and differential near3 loss and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 18:14
S29	12	grating and differential near3 loss and ((fiber or waveguide) near3 (bend or curved))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:37

S30	3	differential near3 loss same ((fiber or waveguide) near3 (bend or curved))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 18:16
S31	3	differential near3 loss same ((fiber or waveguide) near3 (bend or curved or ring))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 18:17
S32	2	differential near3 loss with ((fiber or waveguide) near3 (bend or curved or ring))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 18:17
S33	21	differential near3 loss and ((fiber or waveguide) near3 (bend or curved or ring))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 18:20
S34	24	tap near3 grating same bragg near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/12 18:21
S35	2	differential near3 loss same ((fiber or waveguide) near3 (curv\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:38
S36	9	differential near3 loss and fiber near3 curv\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:41
S37	8	differential near3 loss and fiber near3 coil\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:42
S38	6	differential near3 loss and fiber near3 coil\$3 and polari\$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:47
S39	24	differential near3 loss same coil\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:51
S40	5	( differential near3 loss same coil\$3) and polari\$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:47
S41	228	pc near3 fiber	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:51

S42	3	pc near3 fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:51
S43	751	pc and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 10:00
S44	158	((pc and fiber near3 laser) and loss) and grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:56
S45	1	coil near5 tight near3 curve	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:55
S46	353	(pc and fiber near3 laser) and loss	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 09:56
S47	656	polarization near3 control\$4 and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 10:00
S48	446	(polarization near3 control\$4 and fiber near3 laser) and loss	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 10:01
S49	337	((polarization near3 control\$4 and fiber near3 laser) and loss) and (curv\$3 or loop\$3 or coil\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 10:03
S50	200	((((polarization near3 control\$4 and fiber near3 laser) and loss) and (curv\$3 or loop\$3 or coil\$3)) and grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 10:01
S51	253	fiber near3 laser near5 (curv\$3 or loop\$3 or coil\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 10:03
S52	59	(fiber near3 laser near5 (curv\$3 or loop\$3 or coil\$3)) and polarization near5 control\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/13 10:03
S53	672	((nd or noedium) near3 rare near3 earth)	US-PGPUB; USPAT	OR	OFF	2003/11/13 11:29
S54	62	((((nd or noedium) near3 rare near3 earth)) and fiber near3 laser	US-PGPUB; USPAT	OR	OFF	2003/11/13 11:29
S55	0	((("5844928").PN.) and clock and off	US-PGPUB; USPAT	OR	OFF	2003/11/13 16:08

S56	0	((("5844928").PN.) and clock	US-PGPUB; USPAT	OR	OFF	2003/11/13 16:08
S57	0	((("5844928").PN.) and logic	US-PGPUB; USPAT	OR	OFF	2003/11/13 16:09
S58	1	("5844928").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/11/13 16:09
S59	1	((("5844928").PN.) and off	US-PGPUB; USPAT	OR	OFF	2003/11/13 16:09
S60	123	fiber near3 laser and bragg near3 grating and single near3 polarization	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/06 14:20
S61	2	((("5511083") or ("5881188") or ("5511083") or ("5881188")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/06/07 17:35
S62	15	("4329385"   "4362943"   "4474427"   "5066133"   "5104209"   "5157747"   "5287427"   "5327515"   "5351321"   "5367588"   "5574810"   "5604829"   "5620495"   "5652818"   "5745617").PN.	USPAT	OR	OFF	2004/06/07 17:36
S63	11	("4725110"   "4807950"   "5042897"   "5048913"   "5061032"   "5103456"   "5237576"   "5257273"   "5305335"   "5317576"   "5422897").PN.	USPAT	OR	OFF	2004/06/07 17:38
S64	102	359/574.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 18:10
S65	873	359/566.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 18:14
S66	39	359/566.ccls. and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 18:14
S67	9	359/573.ccls. and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 18:14
S68	170	359/573.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 18:29

S69	1341	385/11.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 18:45
S70	155	385/11.ccls. and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 18:30
S71	78	385/11.ccls. and bragg near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 18:46
S72	27	("4557552"   "4588255"   "4676585"   "4726644"   "4768850"   "4900119"   "4934777"   "5077816"   "5111519"   "5153933"   "5271024"   "5274720"   "5317576"   "5337382"   "5351324"   "5367586"   "5410404"   "5414548"   "5467212"   "5555118"   "5579143"   "5608825"   "5647037"   "5742416"   "5748349"   "5812711"   "5838851").PN.	USPAT	OR	OFF	2004/06/07 18:41
S73	2468	385/37.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 18:45
S74	1078	385/37.ccls. and bragg near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 18:46
S75	271	(385/37.ccls. and bragg near3 grating) and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/07 19:18
S76	1	("5511083").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/06/07 19:18
S77	8	((loop\$3 or ring) near3 fiber near3 laser) same (polari\$8 and grating\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 11:36
S78	121	((loop\$3 or ring) near3 fiber near3 laser) and (polari\$8 and grating\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 11:36

S79	66	((loop\$3 or ring) near3 fiber near3 laser) and polari\$8 and (bragg near3 grating\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 11:44
S80	8	polarization near3 controller near3 grating	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 11:57
S81	117	polarization near3 controller near3 (loop\$3 or ring or shape or curv\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 11:58
S82	17	(polarization near3 controller near3 (loop\$3 or ring or shape or curv\$3)) same dop\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:01
S83	0	(polarization near3 controller near3 tight near3 (loop\$3 or ring or curv\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:03
S84	0	(polarization near3 controller near3 diameter near3 (loop\$3 or ring or curv\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:03
S85	2	polarization near3 controller near3 diameter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:05
S86	14	polarization near3 controller near3 fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:11
S87	3	((fiber near3 laser near (loop\$3 or ring)) same diameter) and polari\$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:21
S88	6	fiber near3 tight\$3 near3 polari\$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:37
S89	2260	york near3 technolog\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:30
S90	5301	fiber and polari\$3 and coil\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:30



S91	6778	fiber and polari\$8 and coil\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:30
S92	7	(york near3 technolog\$3) and (fiber and polari\$8 and coil\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:30
S93	8	(fiber near3 tight\$3 near3 (loop\$3 or coil\$3)) same polari\$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 12:42
S94	7	(fiber near3 loss near3 (loop\$3 or coil\$3)) same polari\$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:23
S95	656	bending near3 loss and stress near3 induc\$3 birefringence and bragg near3 grating\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:25
S96	2	bending near3 loss and ((stress near3 induc\$3 birefringence) same (bragg near3 grating\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:27
S97	0	bending near3 loss and ((stress near3 induc\$3 near3 birefringence) same (bragg near3 grating\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:26
S98	15	bending near3 loss and ((stress near3 induc\$3 birefringence) and (bragg near3 grating\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:27
S99	0	bending near3 loss and ((stress near3 induc\$3 near3 birefringence) and (bragg near3 grating\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:28
S10 0	55	((stress near3 induc\$3 near3 birefringence) and (bragg near3 grating\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:28
S10 1	10	((stress near3 induc\$3 near3 birefringence) same (bragg near3 grating\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:35
S10 2	32	((stress near3 induc\$3 near3 birefringence) same (bending))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:42



S10 3	7	((stress near3 induc\$3 near3 birefringence) same (bending))) and fiber near3 laser	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:36
S10 4	10	("Re35215"   "4907238"   "5175643"   "5177752"   "5321718"   "5457707"   "5530582"   "5561676"   "5745284"   "5778015").PN.	USPAT	OR	OFF	2004/06/08 14:40
S10 5	0	((stress near3 induc\$3 near3 birefringence) near3 (grating\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:42
S10 6	25	((stress near3 induc\$3 near3 birefringence) same (grating\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:43
S10 7	23	((stress near3 induc\$3 near3 birefringence) same (grating\$1)) and fib\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:48
S10 8	66	bow near3 tie near3 fib\$3	USPAT	OR	OFF	2004/06/08 14:57
S10 9	0	bragg near3 grating near induc\$3 near3 birefringen\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:58
S11 0	1	bragg near3 grating near3 induc\$3 near3 birefringen\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 14:59
S11 1	27	bragg near3 grating same induc\$3 near3 birefringen\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 15:06
S11 2	41	bragg near3 grating near3 birefringen\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 15:06
S11 3	53	induced near3 bragg near3 grating\$1 and mask and fib\$3	US-PGPUB; USPAT	OR	OFF	2004/06/08 16:19
S11 4	17	induced near3 bragg near3 grating\$1 and mask and fib\$3 and argon near3 laser	US-PGPUB; USPAT	OR	OFF	2004/06/08 16:27
S11 5	3	induced near3 bragg near3 grating\$1 and mask and fib\$3 and argon near3 laser and photorefractive	US-PGPUB; USPAT	OR	OFF	2004/06/08 16:21

S11 6	3	induced near3 bragg near3 grating\$1 and mask and fib\$3 and argon near3 laser and "334 nm"	US-PGPUB; USPAT	OR	OFF	2004/06/08 16:28
S11 7	13	grating\$1 and mask and fib\$3 and argon near3 laser and "334 nm"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/06/08 16:28
S11 8	4	((("5166940") or ("5056888") or ("5031993") or ("5745617"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/01/07 16:53
S11 9	37	(coupl\$3 near3 grating\$1) same (single near3 polariz\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 17:00
S12 0	4	(coupl\$3 near3 grating\$1) with (single near3 polariz\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 16:55
S12 1	5	(bragg near3 grating with (single near3 polariz\$5)) same fiber near3 laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 17:01
S12 2	10	(bragg near3 grating\$1 with (single near3 polariz\$5)) same fiber near3 laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 17:05
S12 3	36	(bragg near3 grating\$1 same (single near3 polariz\$5)) and fiber near3 laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 17:09
S12 4	6	(bragg near3 grating\$1 same (maintain\$3 near3 polariz\$5)) and fiber near3 laser near3 ring	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 17:12
S12 5	92	bragg near3 grating\$1 and ((maintain\$3 near3 polariz\$5) same fiber near3 laser)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 17:55
S12 6	8	bragg near3 grating\$1 with moire	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 18:01

S12 7	12	bragg near3 grating\$1 same moire	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 18:02
S12 8	3	bragg near3 grating\$1 same moire and fiber near3 laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/07 18:01
S12 9	300	372/27.ccls.	US-PGPUB; USPAT	OR	OFF	2005/01/10 10:45
S13 0	334	372/27.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/10 10:46
S13 1	30	S130 and bragg near3 grating	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/10 10:46
S13 2	124	372/29.01.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/10 10:47
S13 3	9	S132 and bragg near3 grating	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/10 10:47
S13 4	1403	372/6.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/10 10:50
S13 5	250	S134 and bragg near3 grating	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/10 10:47
S13 6	129	S135 and polariz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/10 10:50

S13 7	814	372/102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/10 10:50
S13 8	129	S136 and polariz\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/10 10:50
S13 9	114	S138 and fib\$3 near3 laser	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/01/10 10:51